MILO VERMEULEN — 20-8-2020

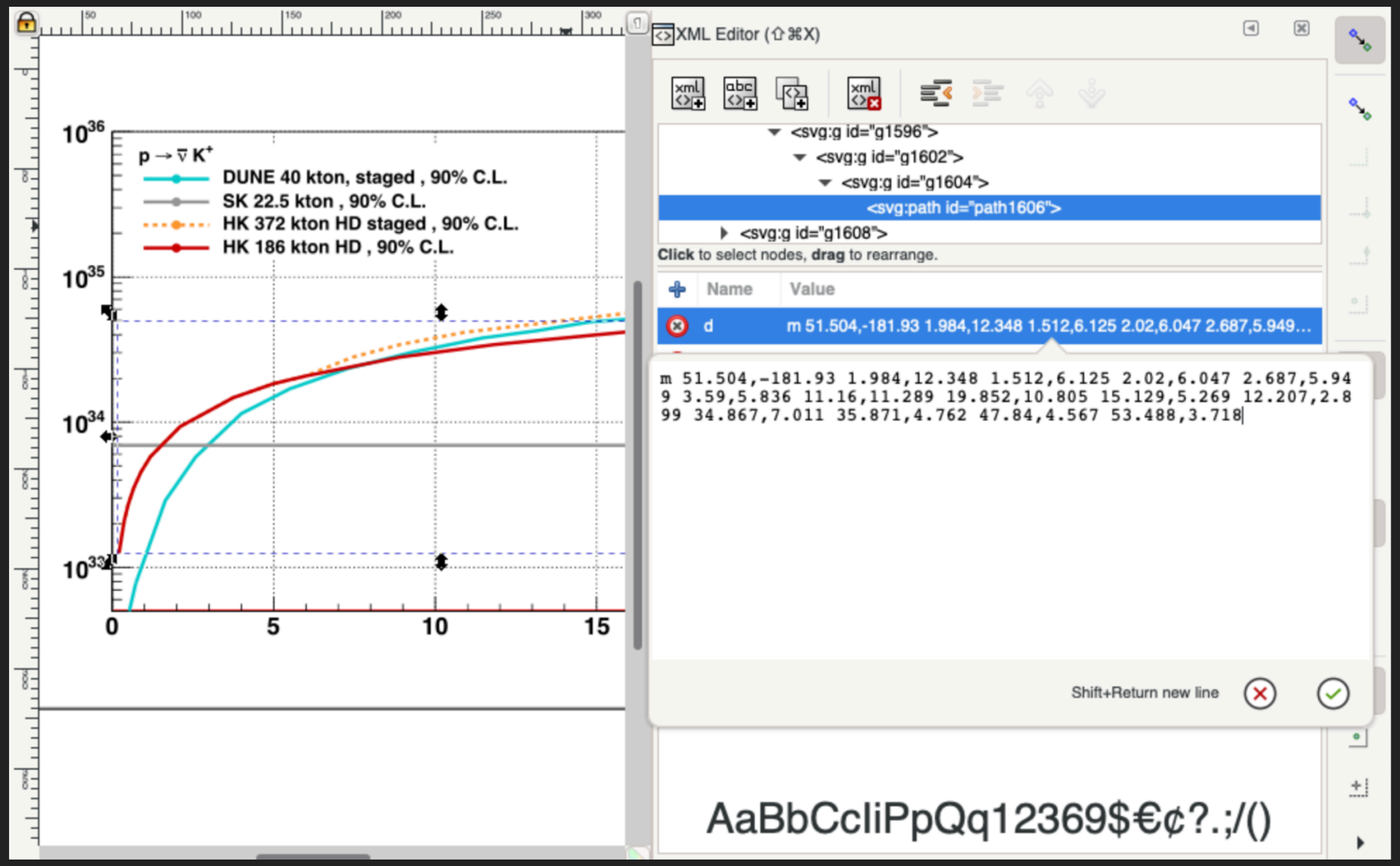
HOW TO STEAL PLOTS AND GET AWAY WITH IT

IN THIS PRESENTATION

- Cool new ways to make other people's plots look like your own plots 😎
  - From PDFs, EPSs and other vector-based drawings
  - From PNGs, JPGs and other pixel-based drawings
- (Do always give credit to the original source)

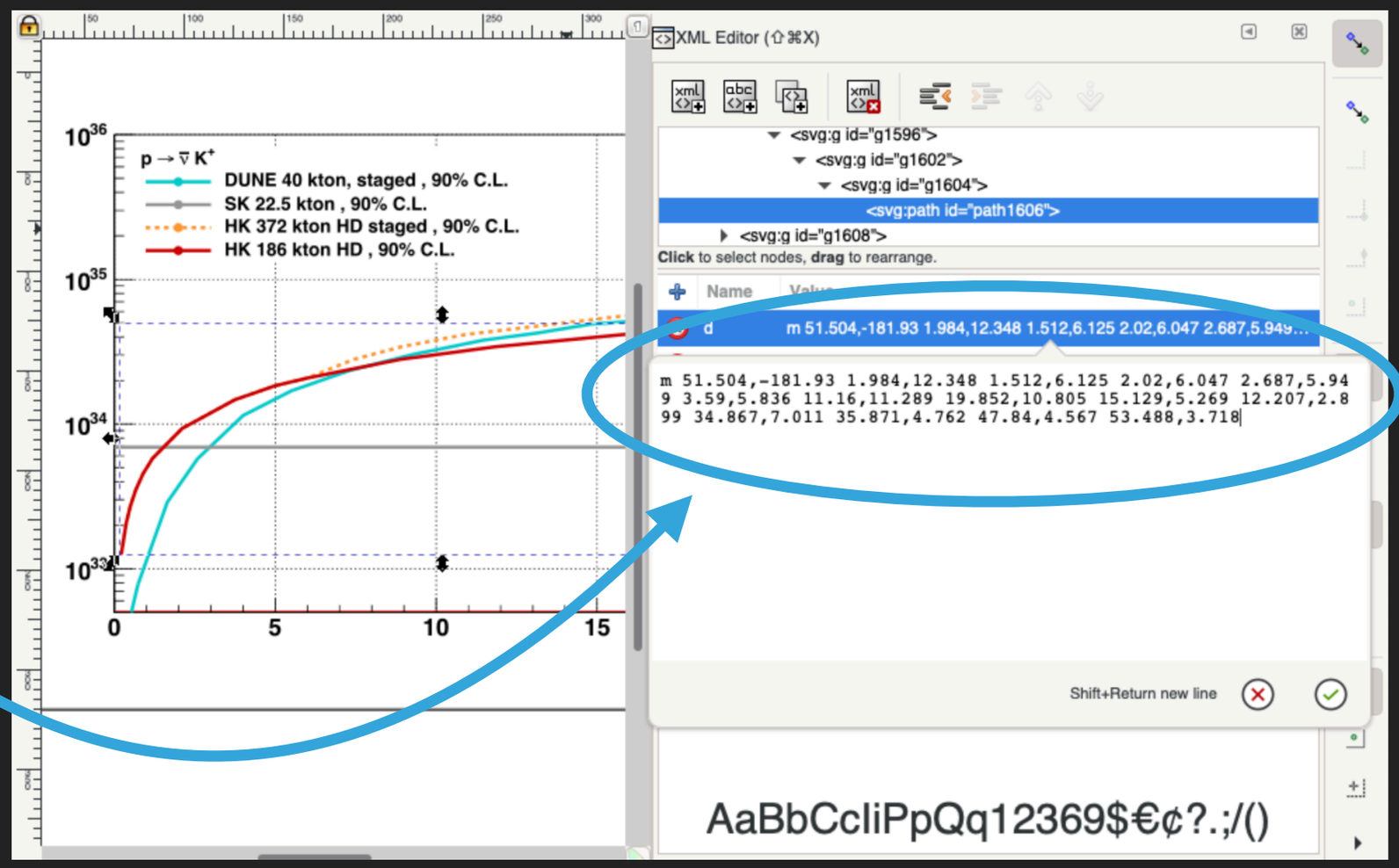
VECTOR PLOTS

- Extract vector plot (for example with Inkscape)
- Extract location information of axes and lines (also Inkscape)



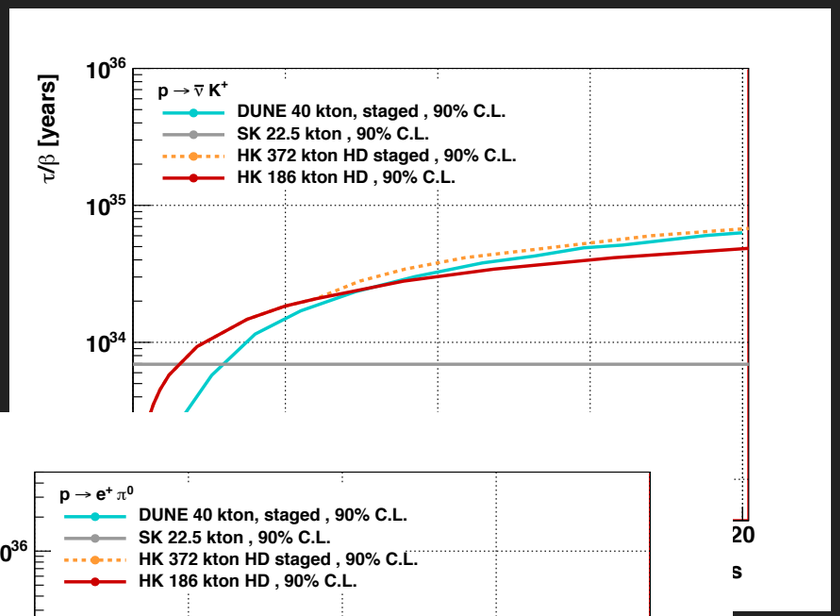
VECTOR PLOTS

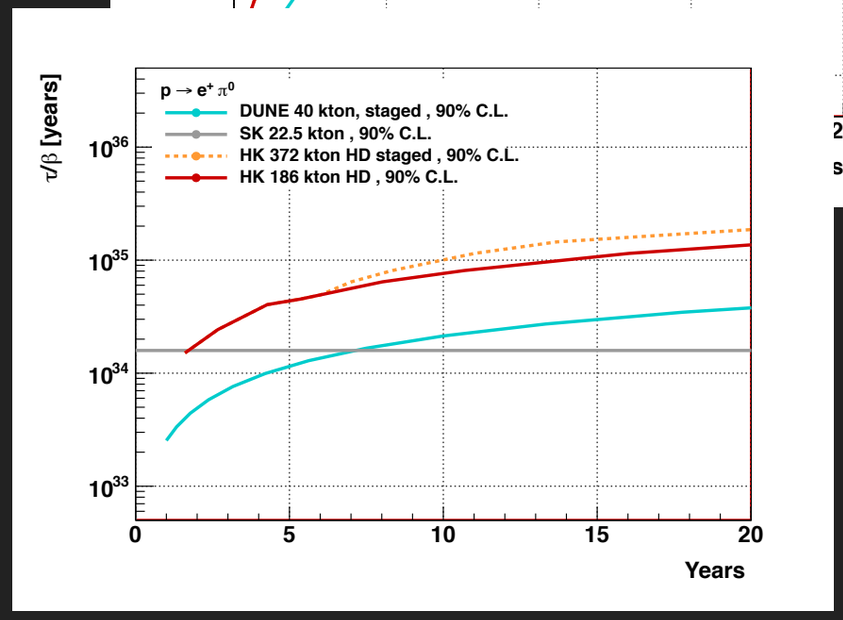
- Extract vector plot (for example with Inkscape)
- Extract location information of axes and lines (also Inkscape)
- Parse arcane path description and rescale to axes (for example in python)

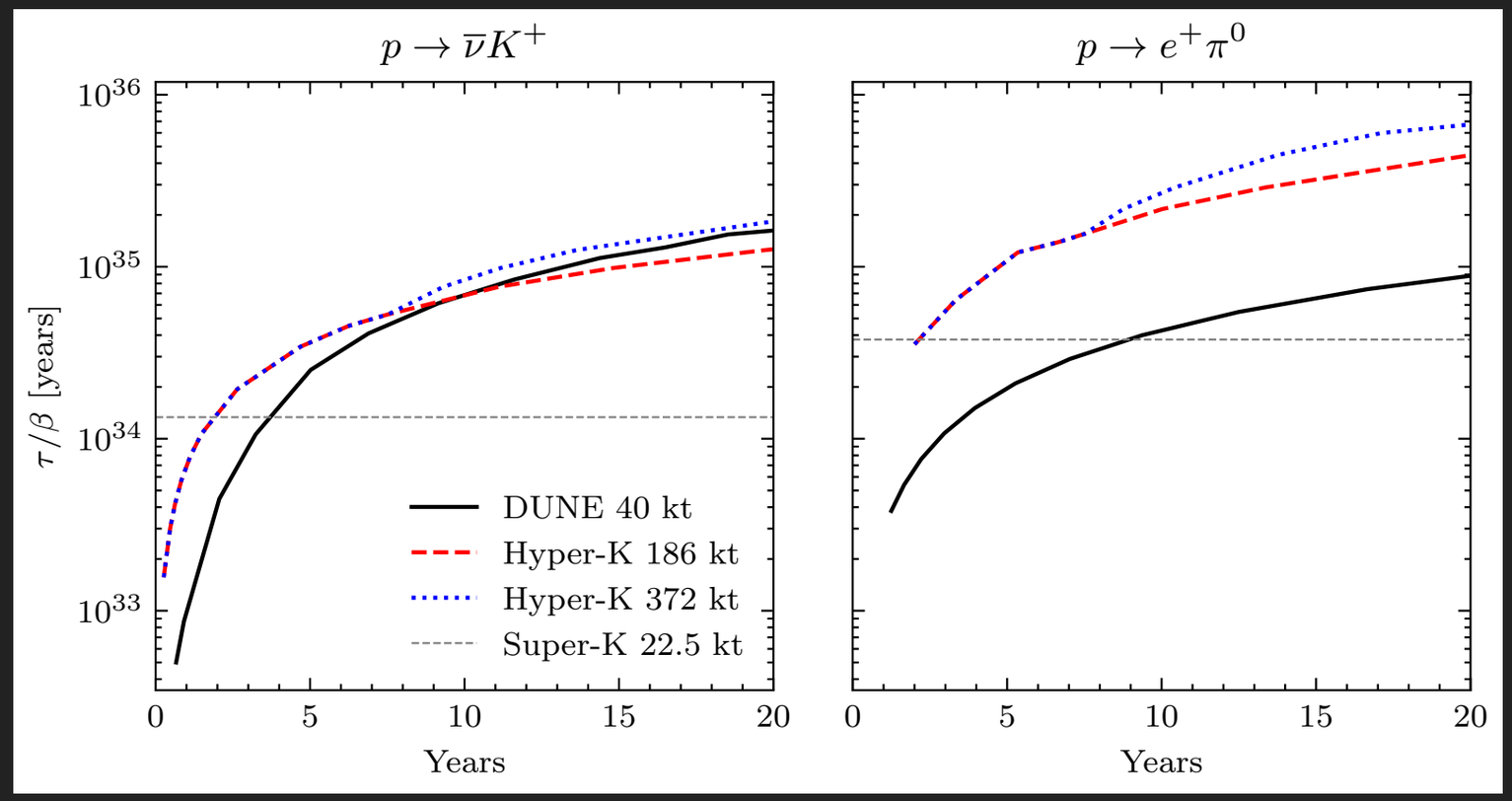


VECTOR PLOTS — EXAMPLES

- Proton decay – unify and beautify

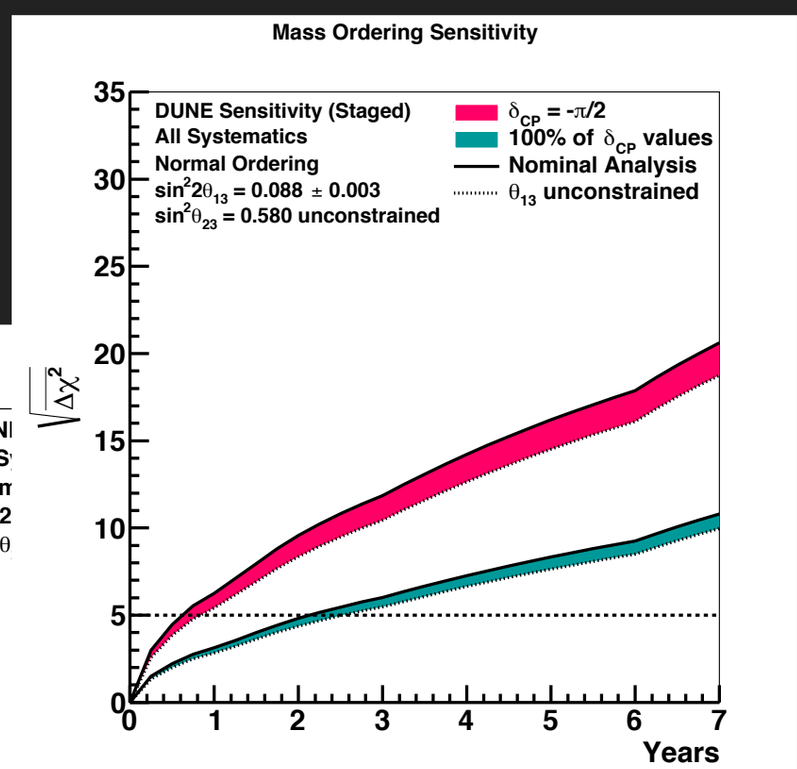


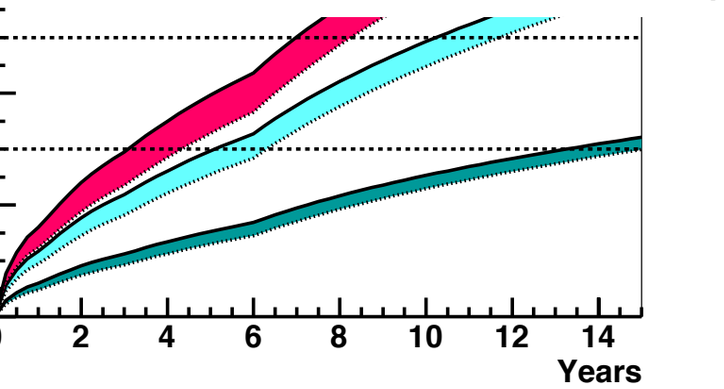


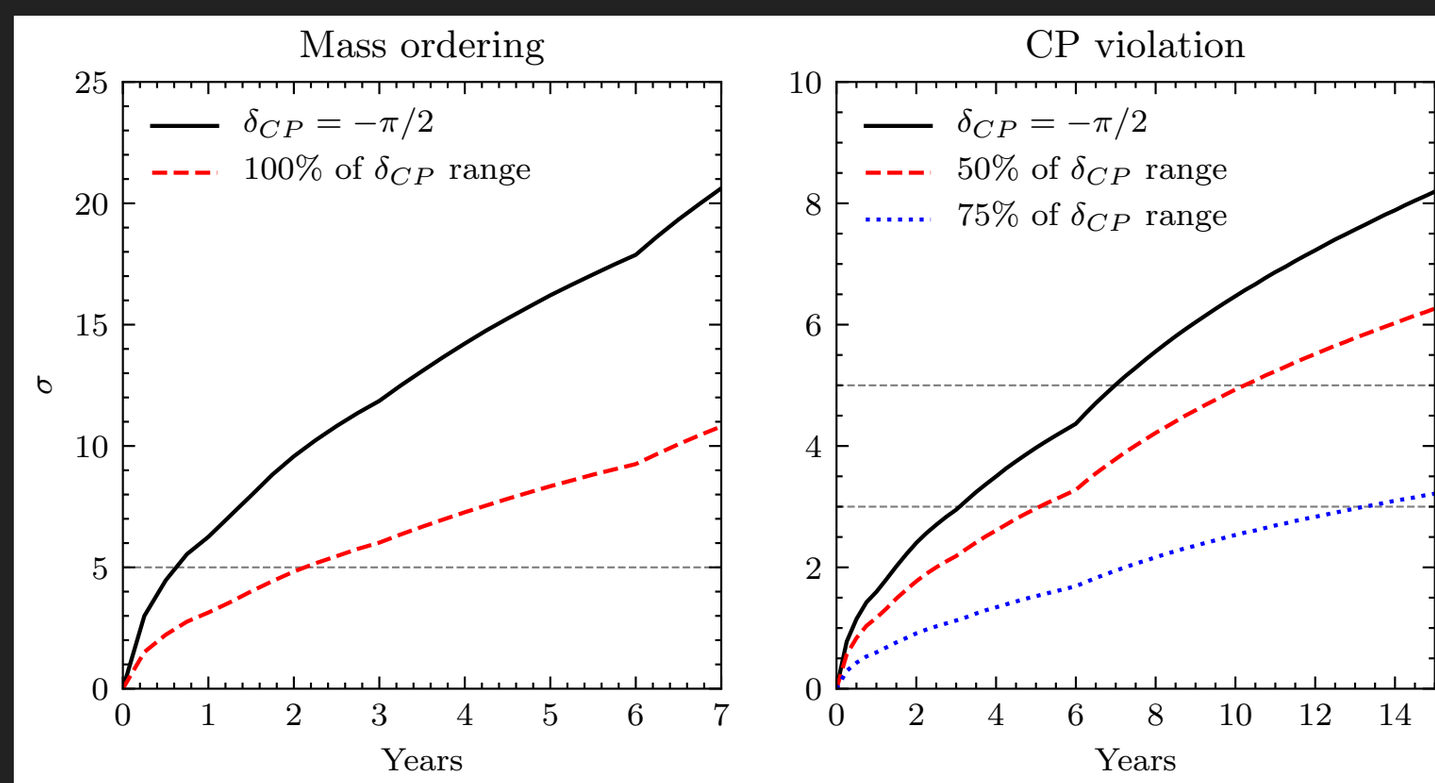


VECTOR PLOTS — EXAMPLES

- Detector sensitivities – simplify and unclutter

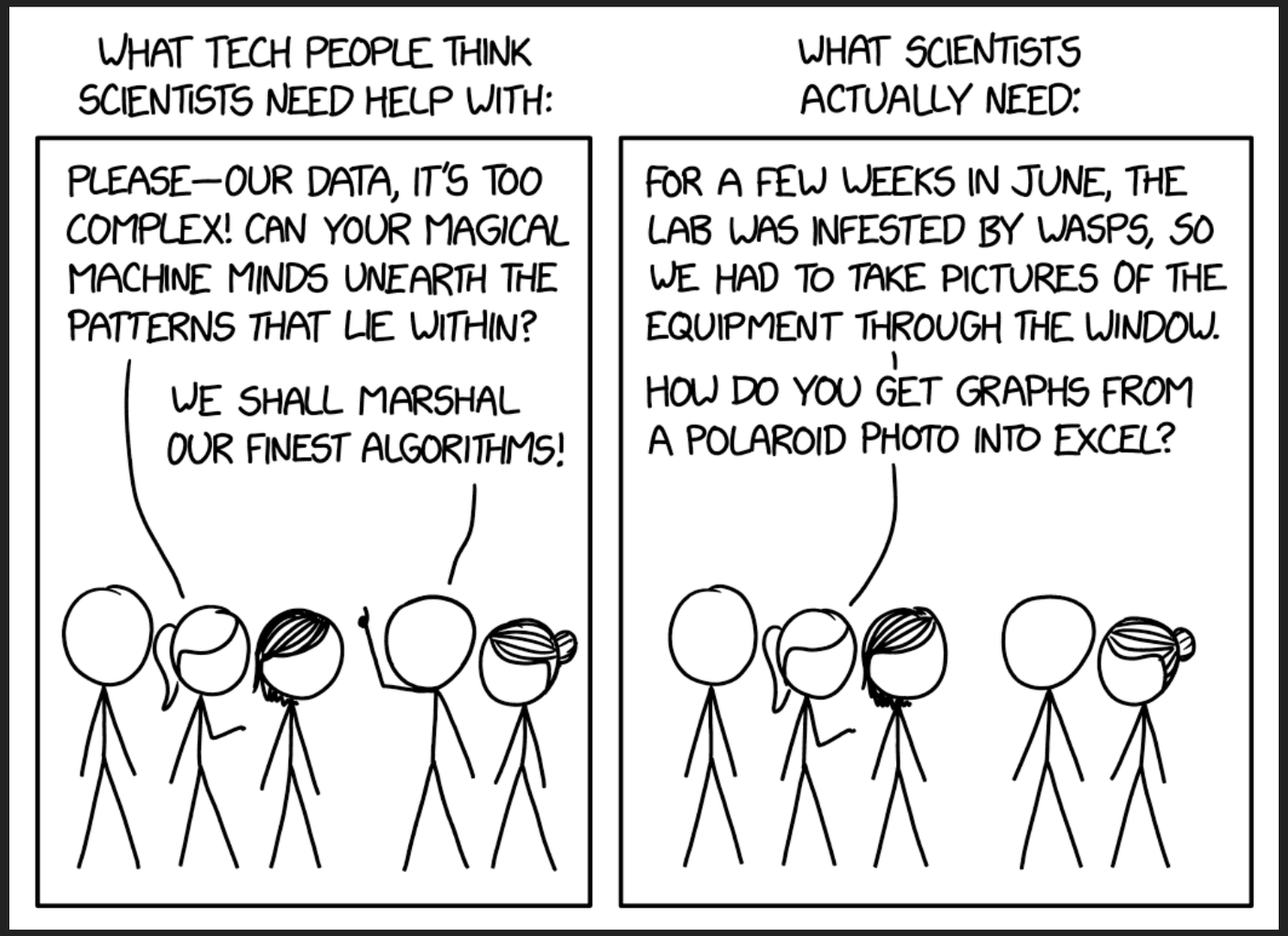






PIXEL PLOTS

- Use WebPlotDigitizer
  https://automeris.io/WebPlotDigitizer/



https://xkcd.com/2341/

PIXEL PLOTS

- Use WebPlotDigitizer
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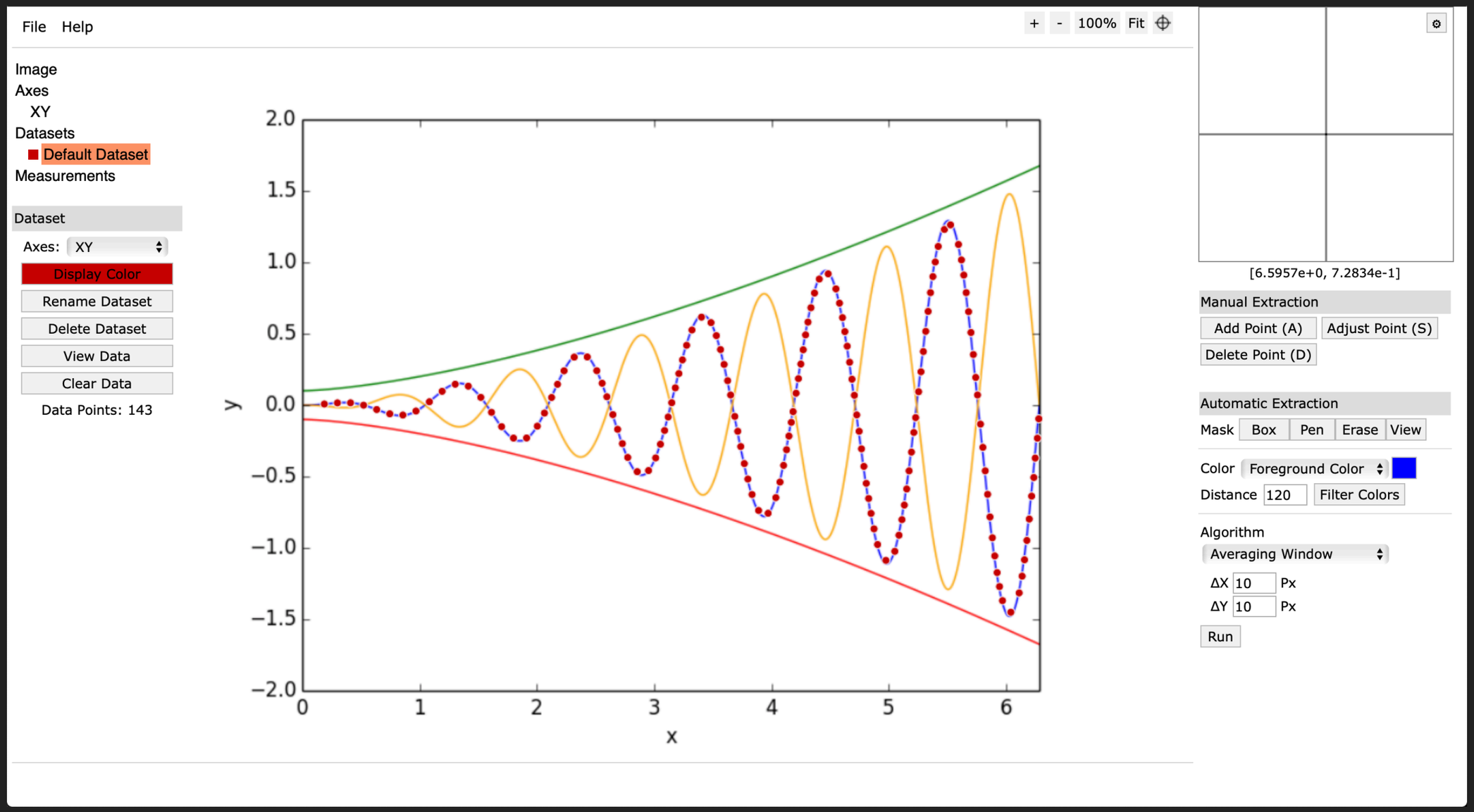
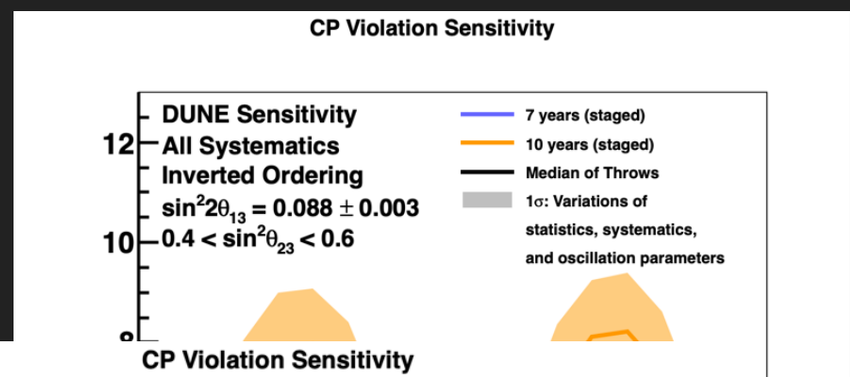
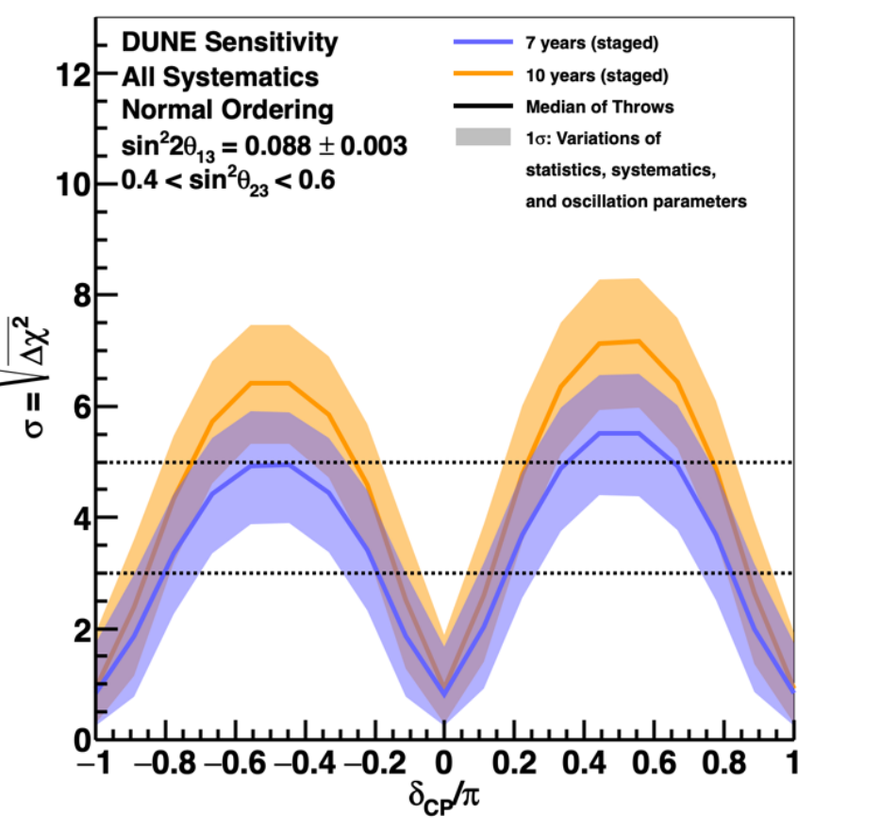
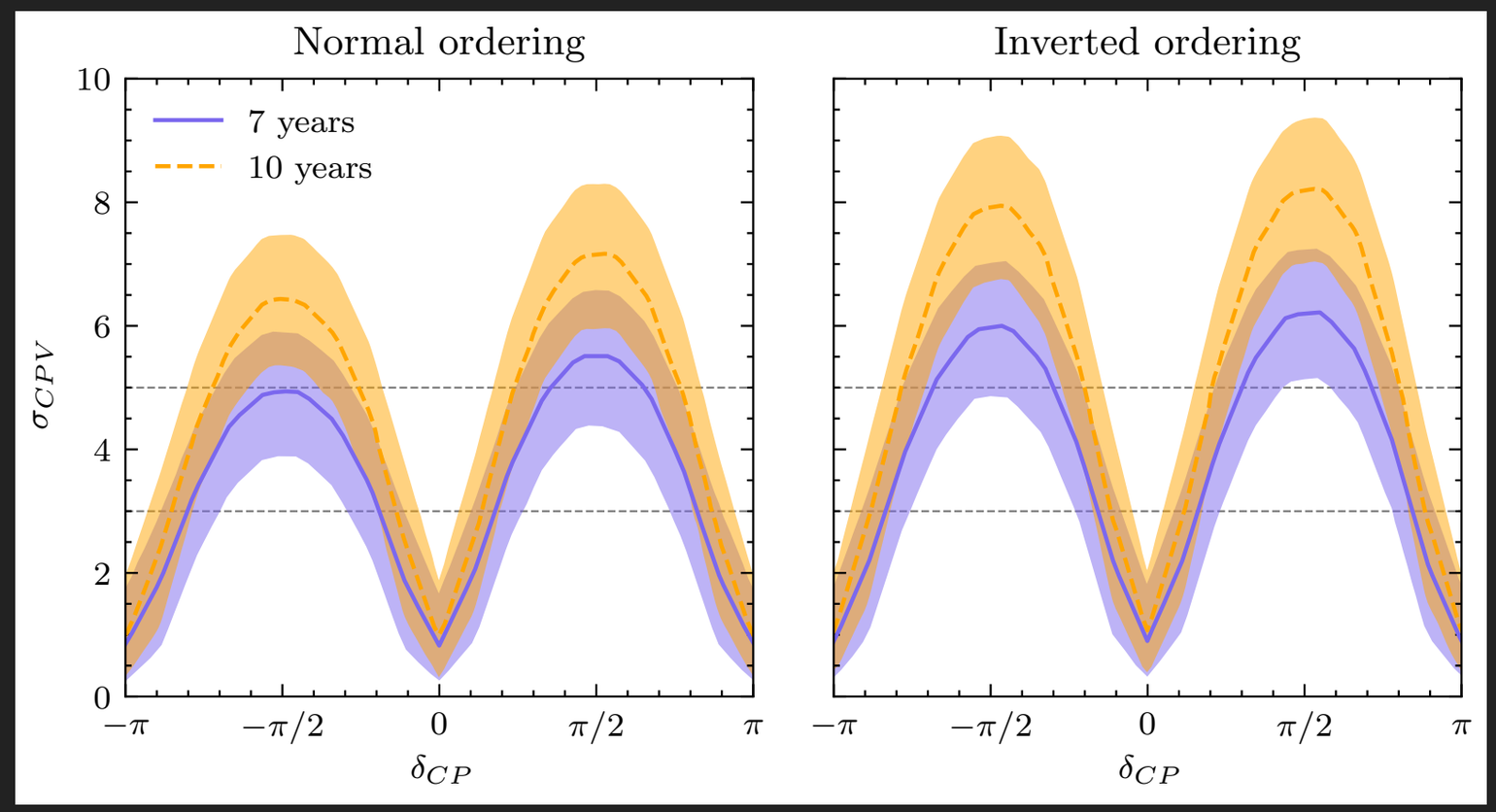


PIXEL PLOTS — EXAMPLE

- CPV sensitivity

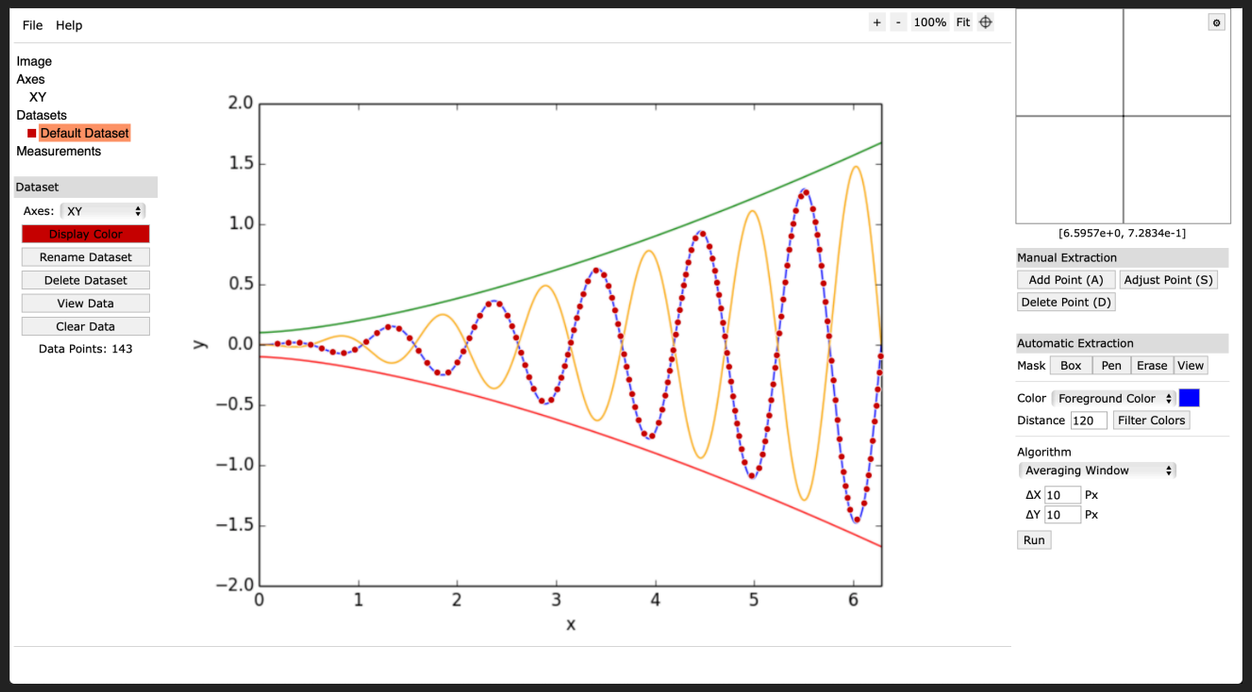






WEBPLOTDIGITIZER

- Technically not 100% correct
- Recommended: only use where vector images are not available
- Accurate enough in my opinion



CONCLUSION

- Great methods for presenting data that is only available in plot-form
- Nice for presentations, thesis, articles, etc., if you're willing to spend ~~too much~~ some time on ✨aesthetics✨